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DIALOG(R)File 351:Derwent WPI

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Thermoplastic elastomer - is mixt. of polyethylene-polyalphaolefin copolymer rubber, resinous polyolefin, and polyvinyl polymer, partic. of polystyrene type

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 53005245	A	19780118				197809 B
JP 82057049	B	19821202				198301

Priority Applications (No Type Date): JP 7678884 A 19760705; JP 82115464 A 19740612

Abstract (Basic): JP 53005245 A

Thermoplastic elastomer comprises a uniform mixt. of (A) >60 pts. wt. of ethylene-alpha-olefin copolymeric rubber, (B) <40 pts. wt. of resinous polyolefin and (C) 1-30 pts. wt. per 100 pts. wt. (A) + (B) of vinyl type compound polymer, and in which at least a part of vinyl type cpd. polymer (C) is present as a graft copolymer of copolymeric rubber (A).

(A) has an ethylene content 50-85 mol% and melt index at 230 degrees C 0.1-50. (B) is a polymer of ethylene or propylene.

(C) is a styrene type cpd. polymer. The elastomer has melt index at 230 degrees C 0.1-50, tensile strength >125 kg/cm², 200% modulus, >45 kg/cm²; elongation >300%; permanent set <25%, JISA hardness 60-98 and ball drop resilience 45-55%.

Elastomer has good tensile properties, processability and hardness.

Derwent Class: A18

International Patent Class (Additional): C08F-212/06; C08F-255/02;

C08L-023/02; C08L-025/04

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